

1 PURPOSE

This AC/ACJ describes an acceptable means for showing compliance with the requirements of §/JAR 25.1329 of the Federal Aviation Regulations (FAR) and Joint Airworthiness Requirements (JAR). These means are intended to provide guidance to supplement the engineering and operational judgment that must form the basis of any compliance demonstration.

2 CANCELLATION/EFFECTIVE DATE

AC 25.1329-1A, dated July 8, 1968; and ACJ 25.1329, Change 15 (Amend. 96/1, Effective. 19.4.96) are hereby canceled.

3 RELATED FAR/JAR SECTIONS AND ADVISORY MATERIAL.

FAR/JAR

The following are related FAR/JAR standards:

§ 25.671	Control systems, General
§ 25.672	Stability augmentation and automatic and power-operated systems
§ 25.677	Trim systems
§ 25.777	Cockpit controls
§ 25.779	Motion and effect of cockpit controls
§ 25.781	Cockpit control knob shape
§ 25.901	Installation, General Subpart E – Powerplant
§ 25.903	Engines, General Subpart E – Powerplant
§ 25.1301	Function and installation
§ 25.1309	Equipment, systems, and installations
§ 25.1322	Warning, caution, and advisory lights
JAR-OPS 1	Commercial Air Transportation - Aeroplanes
JAR-AWO	All Weather Operations

Advisory Circulars, Advisory Material Joint.

The following guidance and advisory materials are referenced in this AC:

AC 20-115B	Radio Technical Commission for Aeronautics Document RTCA/DO 178B
AC 20-129	Airworthiness Approval of Vertical Navigation (VNAV) Systems for use in the U.S. National Airspace System (NAS) and Alaska
AC 25-7A	Flight Test Guide for Certification of Transport Category Airplanes
AC 25-11	Transport Airplane Electronic Display Systems

AC 25-12	Airworthiness Criteria for the Approval of Airborne Windshear Warning Systems in Transport Category Airplanes
AC 25.1309-1A	System Design and Analysis
AC 25.1581-1	Airplane Flight Manual
AC 120-28D	Criteria for Approval of Category III Weather Minima for Takeoff, Landing, and Rollout
AC 120-29A	Criteria for Approving Category I and Category II Landing Minima for FAR 121 Operators
AC 120-41	Criteria for Operational Approval of Airborne Windshear Alerting and Flight Guidance Systems
AC for 25.671	(in work from FCHWG)
ACJ 25.1309	System Design Analysis
AMJ 25-11	Electronic Display systems
AMJ 25.1581	Airplane Flight Manual
AMJ 25.1322	Alerting Systems

4 RELATED DOCUMENTS

Industry documents.

The following are related Industry Standards that may be useful in the design process:

SAE ARP5366	Autopilot, Flight Director and Autothrust Systems
SAE ARP4754	Certification Considerations for Highly Integrated or Complex Aircraft Systems
SAE ARP4100	Flight Deck and Handling Qualities Standards for Transport Aircraft
SAE ARP4761	Guidelines and Methods for Conducting the Safety Assessment Process on Civil Airborne Systems and Equipment
RTCA DO-178B/ EUROCAE ED-12B	Software Considerations in Airborne Systems and Equipment
RTCA DO-160D/ EUROCAE ED-14D	Environmental Conditions and Test Procedures for Airborne Equipment
RTCA DO-254/ EUROCAE ED	Design Assurance Guidance for Airborne Electronic Hardware
DOT/FAA/CT-96/1	Human Factors Design Guide for Acquisition of Commercial-Off-the-Shelf Subsystems, Non-Developmental Items, and Developmental Systems.